### PATENT COOPERATION TREATY

From the: INTERNATIONAL SEARCHING AUTHORITY				
То:			PCT	
Baldwins PO Box 5999 Wellesley Street Auckland			TTEN OPINION OF THE NAL SEARCHING AUTHORITY	
NEW ZEALAND			(PCT Rule 43bis.1)	
		Date of mailing (day/month/year)	1 4 FEB 2005	
Applicant's or agent's file reference		FOR FURTHER ACT	YON See paragraph 2 below	
SH504430/142 International application No. Ir	nternational filing date		Priority date (day/month/year)	
1	December 2004	(uay/month/year)	24 March 2004	
International Patent Classification (IPC) or both national classification		ation and IPC		
Int. Cl. 7 C07K 1/14 C07K 16/12 C12				
Applicant				
AUCKLAND UNISERVICES LIM	IITED et al	****		
1. This opinion contains indications relating	g to the following ite	ems:		
X Box No. I Basis of the opinion				
Box No. II Priority				
Box No. III Non-establishment of				
Box No. IV Lack of unity of invent				
Box No. V  Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain documents cite	ed	•		
Box No. VII Certain defects in the international application				
Box No. VIII Certain observations o	n the international app	olication		
2. FURTHER ACTION		211	and the base series and the International	
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.				
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.				
For further options, see Form PCT/ISA/220.				
3. For further details, see notes to Form PCT/ISA/220.				
Name and mailing address of the IPEA/AU		Authorized Officer		
AUSTRALIAN PATENT OFFICE		DAVID OLDE	·	
PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au	•	Telephone No. (02) 6283 2569		
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# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/NZ2004/000317

Box	No. I Basis of the opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material
	X a sequence listing table(s) related to the sequence listing
	b. format of material
	in written format
	X in computer readable form
	c. time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in computer readable form.  furnished subsequently to this Authority for the purposes of search.
_	
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:
1	

#### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Claims 32-35

Claims 1-35

Claims -

International application No.

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YES

NO

Box No. V	Reasoned statements applicability; citat	nt under Rule 43 <i>bis</i> .1(a)(i) with regard to novious and explanations supporting such staten	velty, inventive step or industrial nent
1. Statement			
N	ovelty (N)	Claims 1-34	YES
		Claims 35	NO
Ir	ventive step (IS)	Claims 1-31	YES
		Claims 32-35	NO

### 2. Citations and explanations:

The invention appears to reside in the finding that SET1 is able to selectively bind with IgA and C5 thus enabling their isolation and/or removal from a sample.

The following documents identified in the International Search report have been considered for the purposes of this report:

D1: Holden, M.T.G. 2004. Proceedings of the National Academy of Sciences (USA). 101(26):9786-9791.

D2: WO 2002 077183 A

Industrial applicability (IA)

D3: WO 2002 094868 A

D4: Arcus, V.L. et al. 2002. The Journal of Biological Chemistry. 277(35):32274-32281.

D5: TrEMBLE Accession No: Q8NY48.

D6: Kuroda, M. et al. 2001. The Lancet. 357:1225-1240.

D7: Williams, R.J. et al. 2000. Infection and Immunity. 68(8):4407-4415.

#### Novelty (N) and Inventive Step (IS)

D1 was published after the priority date of the present application and is therefore not relevant to the novelty or inventiveness of claims 1-35.

Claims 1-34 are considered novel and inventive in light of D2-D7 as the claimed invention is not disclosed in any of these citations.

Claim 35 lacks novelty in light of each of D2-D7. Each of these citations discloses SET1 or a functional homologue. Due to the use of the word "for" the claim is directed to SET1 per se (See Box VIII). As such the claim lacks novelty as all the essential features are disclosed in each of D2-D7.

Continued in Supplemental Box

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

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Box No. VIII	· Certain observations on the international application
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The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claim 35 is not fully supported by the description with regard to the use of the word "for". Such a phrase places no limitation upon the claims. As such the claims are directed to SET1 or functional equivalents per se (as SET1 is well known in the art this claim inherently lacks novelty). Thus as the claim is not limited to SET1 when used in the applicant's method of isolation and/or removal, the scope of the claim is not fully supported.

Claim 35 is not clear as it appears to be incorrectly appended to claim 30.

The claims in general are not fully supported by the description with regard to the phrase "functional equivalents" of SET1. The specification provides the use of alleles of SET1 in methods of isolating IgA or C5. There is no support for the use of any protein having a function equivalent to that of SET1. Furthermore a protein having the function of SET1 in the context of the claims need only be able to bind IgA and/or C5. Thus as the claims are not limited to the use of functional homologues of SET1, the scope of these claims is not fully supported by the description.

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International Application No.

PCT/NZ2004/000317

Supplemental Box				
In case the space in any of the preceding boxes is not sufficient.				
Continuation of: Box V				
Claims 1-31 are considered inventive in light of D2-D7 as the claimed invention is not disclosed or suggested.				
Claims 32-35 lack an inventive step in light of each of D2-D7. These claims are directed to allelic variants of SET1. Each of these citations disclose SET1 or functional equivalents. It is clear from each citation that at least each strain of Staphylococcus aureus contains variants of SET1 or homologues thereof. As such there is not considered to be any inventive merit in isolating further allelic variants of SET1 or homologues thereof.				
Industrial Applicability (IA)				
Industrial Applicability (IA)  Claims 1-35 meet the requirements of the PCT in regard to industrial applicability.				
Chains 1 30 most ale requiremente or ale 2 or al regard to measure apprehensing.				